NATURAL GAS ANALYSIS
WORLD OF SOLUTIONS

EXPLORATION & MUD LOGGING
Through mud logging, geologists drill exploratory wells to evaluate content of the actual substructure. Mud logging and drilling exploratory wells allow geologists to evaluate content of the actual substructure.

EXTRACTION
Upon locating a natural gas deposit, drilling experts begin the process of boring to the depth determined through the exploration activity. When the new well yields natural gas, engineers continue to evaluate the gas composition at the wellhead to monitor well efficiency.

PRODUCTION
Before it is sold, natural gas must meet specifications for calorific value and purity. Accordingly, collection, processing and distribution demand an array of analytical capabilities. Production by-products – such as ethane, propane, butanes, and pentanes – require characterization prior to use in downstream processes.

TRANSPORTATION
Typically, large volumes of natural gas move from extraction points to processing plants and from producing regions to consumers through an array of pipelines. Due to its corrosive nature, identifying sour gas prior to its distribution into the pipeline helps protect resources from damage. Export can require that producers liquefy gas for international transport. To allow for commercial activity, producers determine calorific value of processed gas at the distribution head and prior to export.

DISTRIBUTION
Producers must accurately calculate calorific value and gas volume transferred to their municipality or industrial accounts. Because natural gas is colorless and odorless, leak detection and safety necessitate that producers add low levels of sulfur-based odorants to the gas streams prior to delivery. Distributors of natural gas input subsequently monitor odorant concentrations throughout the distributions system.

THE TIME IT TAKES TO ANALYZE FIELD GAS COMPOSITIONS.
Built around Micro GC technology, Agilent Mobile Analyzers provide fast, reliable and near-real-time data about gases evolving from the mud around the drill hole.

RAPID RELIABLE ANALYSIS ALLOWS YOU TO MAKE INFORMED DECISIONS, QUICKLY

PROFILE SULFUR, PERMANENT GASES AND HYDROCARBON CONTENT USING AGILENT NATURAL GAS ANALYZERS

QUICKLY AND RELIABLY DETERMINE COMPOSITION AND CALORIFIC VALUE

ACCURATE, RAPID ANALYSIS ENSURES SAFETY AND PROFITABILITY

visited by

methane carbon dioxide ethane

www.agilent.com/chem/naturalgas

Agilent 490 Micro GC as a 19-inch rack

Agilent 7890B Natural Gas Analyzer

Agilent Technologies